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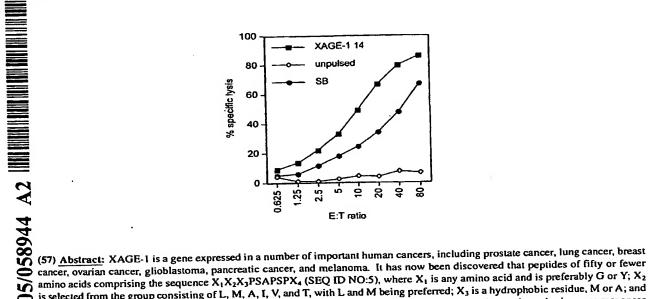
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(54) Title: IMMUNOGENIC PEPTIDES OF XAGE-1



amino acids comprising the sequence X₁X₂X₃PSAPSPX₄ (SEQ ID NO:5), where X₁ is any amino acid and is preferably G or Y; X₂ is selected from the group consisting of L, M, A, I, V, and T, with L and M being preferred; X3 is a hydrophobic residue, M or A; and X4 is V, M, L, A, I, or T, and is preferably V, bind to the HLA-A2 MHC class I molecule, and can be used to raise immune responses to XAGE-1-expressing cancers. In some embodiments, the P at position 7, the S at position 8, or the P at position 9, can be omitted to create a 9 amino acid peptide. The invention provides immunogenic peptides, nucleic acids encoding them, vectors comprising the nucleic acids, uses of the peptides and nucleic acids for manufacture of medicaments, methods of using the peptides and nucleic acids, and compositions of the peptides or nucleic acids in pharmaceutically acceptable carriers.